

approximately 45°C followed by washing twice for 30 minutes in 2 X SSC, 0.5% SDS at a temperature of at least 65°C, which is a sub-unit of a KCNQ4 potassium channel, which is an outwardly rectifying potassium channel.

10. (Thrice Amended) The isolated polynucleotide according to claim 7, wherein said polynucleotide encodes an amino acid sequence that has been changed at one or more positions located in a conserved region, wherein said region is defined by Table 1.
21. (Thrice Amended) The cell according to claim 18, wherein said heterologous polynucleotide encodes an amino acid sequence that has been changed at one or more positions located in a conserved region, wherein said region is defined by Table 1.

REMARKS

The claims have been amended to better describe the invention. Support for the amendment to claim 1 can be found on page 13, lines 5-7. No new matter has been added.

Rejections Under 35 U.S.C § 112, first paragraph

Enablement

The Examiner has rejected claims 1-6, 18-30 and 59-61 for lack of enablement. The Examiner contends that while the application is enabling for an isolated polynucleotide having a sequence as set forth in SEQ ID NO. 1, it does not reasonably provide enablement